

651217

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number  
**WO 2004/091383 A2**

(51) International Patent Classification<sup>7</sup>: **A61B**  
(21) International Application Number:  
PCT/US2004/009704  
(22) International Filing Date: 31 March 2004 (31.03.2004)  
(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
60/458,960 1 April 2003 (01.04.2003) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(71) Applicants and  
(72) Inventors: **SUKUMAR, Saraswati** [US/US]; Johns Hopkins Oncology Ctr., Bunting/Blaustein Bld., Room 410, 1650 Orleans Street, Baltimore, MD 21231-100 (US). **MADDEN, Stephen** [US/US]; 137 Nobscot Road, Sudbury, MA 01776 (US).  
(74) Agent: **KAGAN, Sarah, A.**; Banner & Witcoff, Ltd., 11th floor, 1001 G Street, N.W., Washington, DC 20001-4597 (US).

(54) Title: BREAST ENDOTHELIAL CELL EXPRESSION PATTERNS

(57) Abstract: To gain a better understanding of breast tumor angiogenesis, breast endothelial cells (ECs) were isolated and evaluated for gene expression patterns. When transcripts from breast ECs derived from normal and malignant breast tissues were compared, genes that were specifically elevated in tumor-associated breast endothelium were revealed. These results confirm that neoplastic and normal endothelium in human breast are distinct at the molecular level, and have significant implications for the development of anti-angiogenic therapies in the future.



WO 2004/091383 A2